



American Institute of Aeronautics and Astronautics

*THE UNITED STATES NAVAL ACADEMY
CHAPTER OF THE
AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS (AIAA)
INVITES YOU TO COMPETE IN:*

THE PAPER AIRPLANE CONTEST

Come get your “unofficial” carrier landing qualification in this competition of aircraft design, construction, and flying expertise. This competition will test your knowledge of engineering, aerodynamics, origami, and ingenuity by challenging you to construct a paper airplane that will be flight-tested. The paper airplane constructed will be evaluated on its ability to stay aloft a long time, and to land on the deck of an aircraft carrier. Numerous designs with detailed construction instructions will be provided to choose from, or you can enter your own favorite design.

RULES

1. Build a paper airplane out of the materials provided. Paper stock of various weights (8.5” x 11”) will be available for construction. Scissors and small amounts of tape can be used in the construction. The only requirements are that the final design be made from no more than a single sheet of letter size paper, and that the airplane has at least a four-inch wingspan.
2. Each entry will be flight tested at the flight test range in two stages.
 - a. Stage One: The airplane will be thrown by hand from a height of approximately 6 feet. The duration of the flight (TOF) in seconds and tenths of seconds will be measured by the judges. The flight will begin when the airplane leaves the thrower's hand, and end when the airplane touches any object (floor, ceiling, wall, etc.) Each participant will be allowed to use the best Score out of three throws.



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- b. Stage Two: The second stage will consist of three throws. The airplane will be thrown by hand from a height of approximately 7 feet. The object of the flight will be to land the airplane on the 3' by 8' deck of an aircraft carrier positioned approximately 12 feet away. Points will be awarded as follows for each throw:
 - i. *Bonus* for each "bolter" (airplane hits carrier deck but fails to come to rest on the carrier deck).
 - ii. *2X Bonus* for each "trap" (airplane comes to rest on the carrier deck).

The final score will be computed as the sum of the combined scores in each stage.

- 3. Prizes will be awarded to the top entries.
- 4. The competition will be held on the lab decks of Rickover Hall on Saturday, 24 February 2000, time TBA.

Point of contact for any questions is LCDR Eric Hallberg.
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